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Personalizing Voyager using Browser Extensions

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Personalizing Voyager Using Browser Extensions

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Personalizing Voyager using Browser Extensions

Kathryn Lybarger @zemkat
ELUNA 2015 #eluna2015
May 8, 2015

Personalizing Voyager

- As an institution, we have a fair amount of power over how Voyager's OPAC looks
 - Colors and fonts
 - Which fields are searchable
 - What displays in search results
 - What displays in full record view
 - ... (anything really)

Must find a balance

- Provide good access to most of our patrons
- Don't clutter the interface needlessly

But how about...

- ◉ Personalizing for particular groups of patrons?
- ◉ Personalizing for staff needs?
- ◉ Doing so quickly? Even temporarily?

Web browser extensions

- Custom search bars
- Extensions
- Bookmarklets
- User scripts

Browser Search Bars

- Major web browsers allow searching right from the browser interface
- They also allow you to specify which search engine is used
- Some are general
 - Google, Yahoo!, Bing
- Some are specific
 - Wikipedia, IMDb, Amazon.com

Why not your catalog?

- Any single-searchbox search you can do in your catalog:
 - Keyword
 - Title
 - Limit to collection
- You can set up this specific search as a selectable search bar

Smart Keywords in Firefox

The screenshot shows the WorldCat Local search interface. At the top are tabs for 'WorldCat Local', 'Basic', 'Advanced', 'Subject', 'Author', and 'Course Reserve'. The 'Basic' tab is selected. Below the tabs, there is a search bar with the text 'Search:'. To the right of the search bar is a dropdown menu labeled 'within' with 'Title' selected. Below the search bar is a 'Limit To:' dropdown menu with 'Young Media Library' selected. Below that is a 'Records per page:' dropdown menu with '10 records per page' selected. At the bottom of the search area are 'Search' and 'Reset' buttons. A right-click context menu is open over the search bar, showing options: 'Undo', 'Cut', 'Copy', 'Paste', 'Delete', 'Select All', 'Add a Keyword for this Search...', 'Check Spelling', 'Inspect Element', and 'Reload page via EZProxy'.

The screenshot shows a 'Smart Keywords' dialog box. It has three fields: 'Name:' with the text 'Search InfoKat Movies by Title', 'Folder:' with a dropdown menu showing 'Bookmarks Menu', and 'Keyword:' with the text 'movies'. At the bottom right are 'Cancel' and 'Save' buttons.

The screenshot shows a Firefox browser address bar. The address bar contains the text 'movies dodgeball'. Below the address bar is a search bar with the text 'Search InfoKat Movies by Title: dodgeball'. To the right of the search bar is a magnifying glass icon. Below the search bar is a URL: 'infokat.uky.edu/vwebv/search?searchArg=dodgeball&searchCode=TALL&limitTo=LOCA=Young Media Library&recCount=10&searchTy...'. The URL is truncated on the right.

Other browsers?

- Similar features in:
 - Chrome
 - Internet Explorer
 - Safari
 - Opera
- Setup is different
- Use is different
- Changes with version, platform



OpenSearch Search Engines

- OpenSearch is a collection of simple formats for sharing search results
- Includes a format for describing search engines
- Usable in most major browsers
 - (not Opera)
- Easy installation / auto-discovery

Creating cross-browser OpenSearch extensions

- Start with a simple one (check my GitHub)
 - It includes:
 - favicon.ico - identify your search engine in a list
 - index.html - allows auto-discovery, includes a button for installation if that's not supported
 - search.xml - In "OpenSearch description format", describes the interface of the search engine

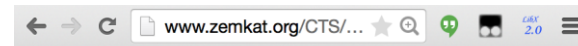
favicon.ico

- Icon that displays in bookmarks, tabs
- Usually 16 x 16 (or 32 x 32) pixels
- You may already have one for your library or institution
- Can be created with image editing software, web sites



Index.html

- Press the button to install in:
 - Firefox
 - Chrome
 - Internet Explorer
- Auto-discovery in some browsers



Press the button below to install the **InfoKat BIB ID** search plugin.

This plugin accepts a bib number as a search term, allowing you to directly access the OPAC view of a record via its persistent URL.



OpenSearch description format

```
<OpenSearchDescription xmlns="http://a9.com/-/spec/opensearch/1.1/">
  <ShortName>InfoKat (BIB ID)</ShortName>
  <Description>View this BIB ID in the InfoKat library catalog at the
University of Kentucky</Description>
  <Tags>UKY</Tags>
  <Image height="16" width="16"
    type="image/x-
icon">http://www.zemkat.org/CTS/OpenSearch/InfoKat/favicon.ico</Image>
  <Contact>infokat@zemkat.org</Contact>
  <Url type="text/html"
template="http://infokat.uky.edu/vwebv/holdingsInfo?bibId={searchTerms}">
</OpenSearchDescription>
```


Construct the URL

- What you type into the search box will replace `{searchTerms}` in the pattern URL
- We have persistent links on our Voyager records, so I recognized that they all look the same except for the bib number. Example:
 - <http://infokat.uky.edu/vwebv/holdingsInfo?bibId=2237424>
- So the pattern URL is:
 - <http://infokat.uky.edu/vwebv/holdingsInfo?bibId={searchTerms}>

Deep Links

- Any search that has one changing argument can be made into a search box
 - Other form elements can be modified but must be constant
- To construct, do that search for a phrase you'll recognize

Identify search string

- Perform the search
- Copy the link out of the search bar
- http://infokat.uky.edu/vwebv/search?searchArg=ZEMKAT&searchCode=GKEY%5E*&limitTo=LOCA%3DSpecial+Collections&recCount=50&searchType=1&page.search.search.button=Search

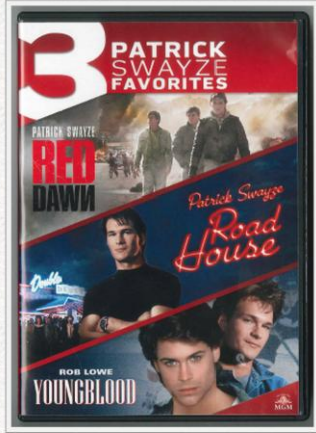
Other cataloging search boxes

- LC Linked Data Service (id.loc.gov)
 - MARC Countries
 - MARC Geographic areas
 - MARC Languages
- SuDoc number confirmation
 - (Deep links into gov doc sources)
- RDA Toolkit by rule number

Problem Cataloger

- I post daily
 - Cataloging problems
 - Cataloging rules
- No nice links from within RDA Toolkit
- I construct them with a search box

April 24 2015



3 Patrick Swayze favorites. (OCLC #907678359)

As a teenager, I applied for many jobs at video stores, having heard the rumors that you could borrow videos (for free!) in the evening as long as you brought them back the next morning. No luck getting hired back then, but now in cataloging, my dream has come true!

RDA 7.22.1.4 on Duration of Component Parts says to record the duration of each component part, which I did in a contents note:

505 0_ #a Red dawn (114 min.) -- Road house (114 min.) -- Youngblood (110 min.).

Extensions

- Firefox – Add-ons/Extensions
- Chrome – Chrome web store
- Safari – Apple web site



LibX for Google Chrome (TM)

from libx.org

★★★★★ (26)

[Search Tools](#)

56,054 users

ADDED TO CHROME



OVERVIEW

REVIEWS

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W Mars Exploration Rover - V. x

en.wikipedia.org/wiki/Mars_Exploration_Rover

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Dansk
Deutsch
Español
Euskara
فارسی
Français
Hrvatski
Italiano

Article Talk

Mars Exploration Rover

From Wikipedia, the free encyclopedia

For the Mars rover that landed in 2012, see *Curiosity rover*.

NASA's **Mars Exploration Rover Mission (MER)** is an ongoing exploring the planet Mars. It began in 2003 with the sending of the Martian surface and geology.

The mission's scientific objective was to search for and character on Mars. The mission is part of NASA's Mars Exploration Program landers in 1976 and Mars *Pathfinder* probe in 1997.^[1]

The total cost of building, launching, landing and operating the ro was US\$820 million.^[2] Since the rovers have continued to function five mission extensions. The fifth mission extension was granted first four mission extensions was \$104 million, and the fifth mission extension was \$104 million, and the fifth mission extension was \$104 million, and the fifth mission extension was \$104 million.

In July 2007, during the fourth mission extension, Martian dust storms lifted, allowing them to resume operations.^[4]

On May 1, 2009, during its fifth mission extension, *Spirit* became get the rover back on track, including using test rovers on Earth, a stationary science platform. This mode would enable *Spirit* to a detecting "wobbles" in the planet's rotation that would indicate a after last hearing from the rover on March 22, 2010 and continued elapsed mission time to 6 years 2 months 19 days or over 25 tim

In recognition of the vast amount of scientific information amassed by *Spirit* and 39382 Opportunity. The mission is managed for NASA by the Jet Propulsion Laboratory, which designed, built, and is operating the rovers.

Contents [hide]

- Objectives
- History
- Spacecraft design

Search ► Summon for...

Keyword

Preview Reset fields Search

Found 14857 results in 2318ms.

NASA: NASA Mars Exploration Rover Team To Be Honored2012 *Defense & Aerospace Week*, 24, (Abstract) [Get VText](#)

NASA Mars Exploration Rover Team to be Honored2012, (Abstract) [Get VText](#)

NASA Mars Exploration Rover Team To Be Honored2012 *PR Newswire*, (Abstract) [Get VText](#)

NASA launches 'Opportunity' Mars Exploration Rover, Staff2003 *Aerospace Daily & Defense Report*, 207(6), 6, (Abstract) [Get VText](#)

NASA successfully launches first Mars Exploration Rover2003 *Aerospace Daily & Defense Report*, 206(51), 2, (Abstract) [Get VText](#)

Reliable Service- Oriented Architecture for NASA's Mars Exploration Rover Mission, Mak, R, Keely, L, Walton, J, Chan, L et al2005, (Abstract) [Get VText](#)

Mars exploration. Plan for two rovers squeezes NASA budget, Lawler, A, MacIell, J2000 *Science (New York, N.Y.)*, 289(5482), 1119, (Abstract) [Get VText](#)

NASA to free Mars exploration rover Spirit from sand trap, Anonymous2009 *Xinhua News Agency - CEIS*, (Abstract) [Get VText](#)

NASA's Twin Mars Rovers Continue Exploration2005 *PR Newswire*, 1, (Abstract) [Get VText](#)

NASA Announces Media Teleconference About Opportunity Rover2011, (Abstract) [Get VText](#)

Simple view

Timeline of the Mars Exploration Rover mission

LibX (libx.org) for Google Chrome (TM)

LibX is an extension that allows users to search their library's catalog or discovery system. Over 1000 libraries have created editions for their local communities.

For more information, see <http://libx.org>

Report Abuse

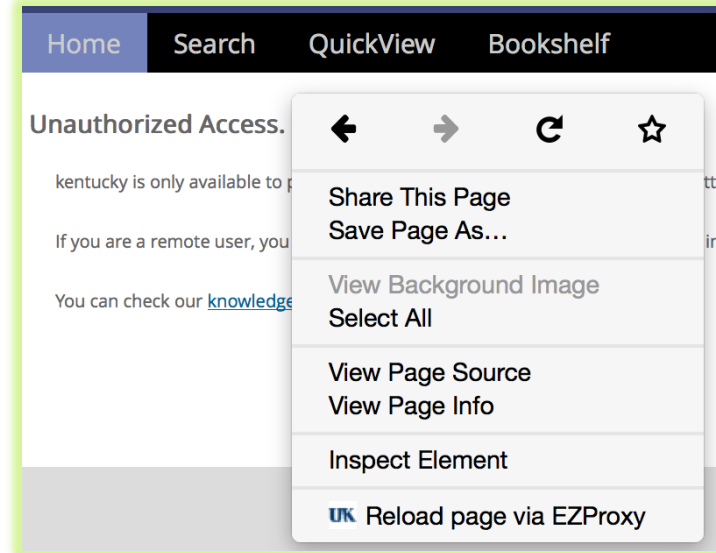
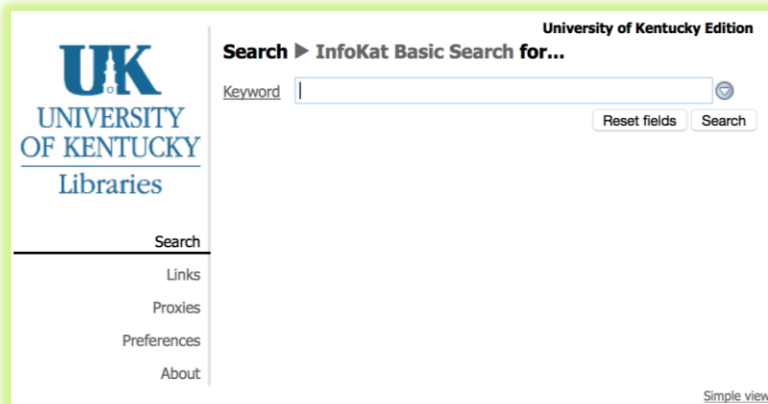
Version: 2.0.16525.0

Updated: March 31, 2015

Size: 779KB

Languages: [See all 6](#)

LibX – University of Kentucky edition



Dear Enemy and over one million other books are available for **Amazon Kindle**.

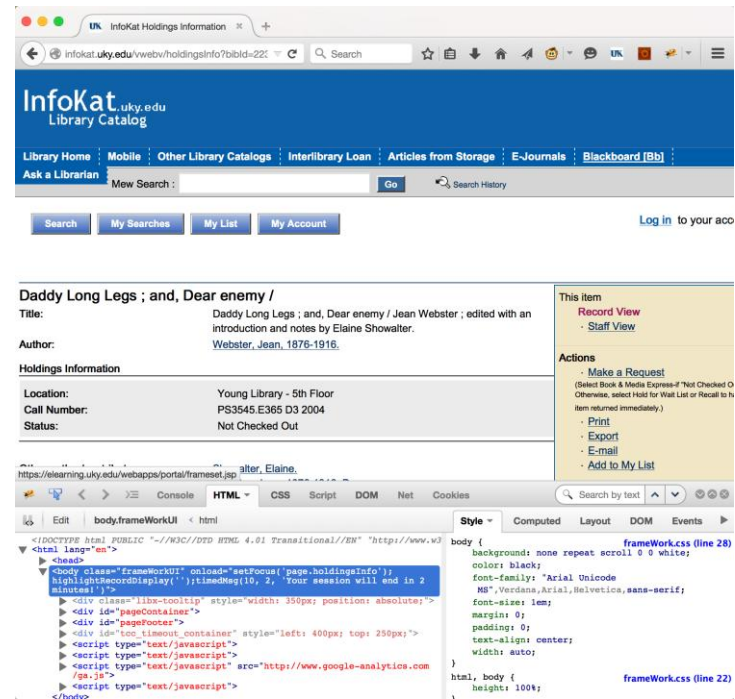
Dear Enemy^{UK} Paperback – January 1, 2010

by **Jean Webster** ▼ (Author)

★★★★☆ ▼ 64 customer reviews

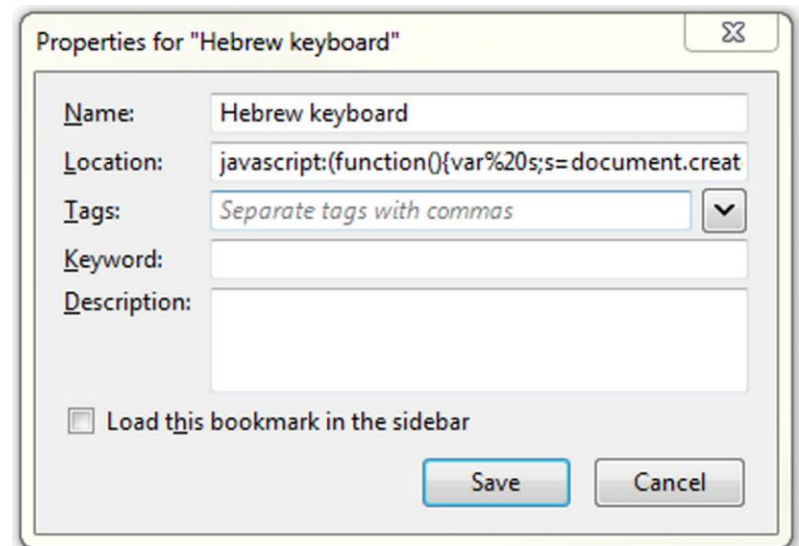
Firebug

- Firefox extension
- Explore web elements
- Modify:
 - Style
 - Layout
- Good for testing, writing programs



Bookmarklets

- Very similar to bookmarks
- Instead of a URL, Javascript code
- When you click it, it runs on the current page:
 - Delete elements
 - Add elements
 - Re-order elements
 - Re-style elements



Hebrew Keyboard (before)



Hebrew Keyboard (after)



ש


VS.


שׁ

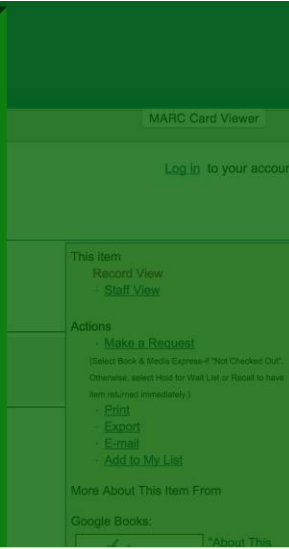
Location:	Young Library - 5th Floor
Call Number:	PS3545.E365 D3 2004
Status:	Not Checked Out

```
<ul title="Holdings Record Display">
  <li class="bibTag">
    <span class="fieldLabelSpan">Location:</span>
    <span class="subfieldData">Young Library - 5th Floor</span>
  </li>
  <li class="bibTag">
    <span class="fieldLabelSpan">Call Number:</span>
    <span class="subfieldData">PS3545.E365 D3 2004</span>
  </li>
  <li class="bibTag">
    <span class="fieldLabelSpan">Status:</span>
    <span class="subfieldData">Not Checked Out</span>
  </li>
</ul>
```

Call number QR Code








i-nigma   CREATE FREE MOBILE SITES WITH TAPTO.COM >



YOUNG LIBRARY - 5TH FLOOR: PS3545.
E365 D3 [2004](#)

jQuery

- ◉ Select elements, act on them
- ◉ Select from a pulldown by name:
 - ◉ `$('[name=options]').val('3');`
- ◉ Check a box by class:
 - ◉ `$('.myCheckbox').prop('checked', true);`

 JSFiddle α

▶ Run
 ▶ Update
 ▶ Fork
 ▶ TidyUp
 ✓ JSHint
 👤 Collaboration

Frameworks & Extensions

jQuery 1.7.2

☐ jQuery UI 1.8.18
 ☐ jQuery Lint (13 June '11)
 ☐ Bootstrap 2.0.2 (js only)
 ☐ jQuery Mobile 1.1.1

onLoad

Fiddle Options

External Resources

Languages

Ajax Requests

Legal, Credits and Links

? Keyboard shortcuts

1 <select name="options">
 2 <option
 3 value="1">Red</option>
 4 <option
 5 value="2">Green</option>

HTML

1

CSS

1 \$(function() {
 2 \$('name=options').val(
 3 '3');
 4 }
 5 \$('.myCheckbox').prop('checked', true);

JavaScript

Red

▼
 ☒

Result

User scripts

- Javascript code
- Runs all the time
 - (no clicking needed)
- In a framework:
 - Firefox:
Greasemonkey
 - Chrome:
Tampermonkey
- You specify which pages scripts run on



Cat Accent: my first user script

- Runs on all pages
- Replaces words with cat words
 - now → meow
 - new → mew
 - his → hiss
- (available on Github, so you can fork it!)



BARNES & NOBLE
BN.com

Pre-Order Harper Lee's *Go Set a Watchman*



Search Over 30 Million Products

All Products



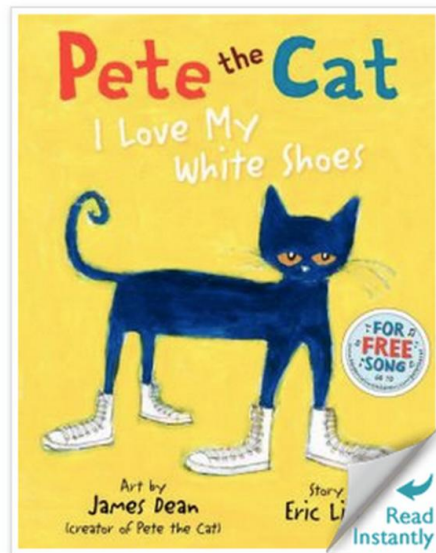
Search

Shopping Bag (0 items)

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Pete the Boss: I Love My White Shoes

by James Dean (Created by), Eric Litwin, James Dean (Illustrator)

★★★★★ (180)

[Add to List +](#)

[Pin it](#)

[g+1](#) [2](#)

[f Like](#) [Share](#)

Overview - Pete the Boss goes walking down the street wearing his brand new white shoes. Along the way, his shoes change from white to red to blue to brown to WET as he steps in piles of strawberries, blueberries, and other big messes! But no matter what color his shoes are, Pete keeps movin' and groovin' and singing his song...because it's all good. **Pete the Boss: I Love My White Shoes** asks the reader questions about the colors of different foods and objects. Don't miss Pete's other ... [See more details below](#)

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with the Purchase of Any Kids' Book [details](#)

Fork this repo!

```
/* THIS FUNCTION NEEDS MANY IMPROVEMENTS!  
:) */
```

```
function cat_translate() { /* regexes for cat  
translations */
```

```
    add_to_list(/\bnow\b/gi, "meow", true);
```

```
    add_to_list(/\bnew\b/gi, "mew", true);
```

```
    add_to_list(/\bperfect/gi, "purrfect", true);
```

```
    add_to_list(/\bhis\b/gi, "hiss", true);
```

```
    add_to_list(/\bbaby\b/gi, "kitten", true);
```

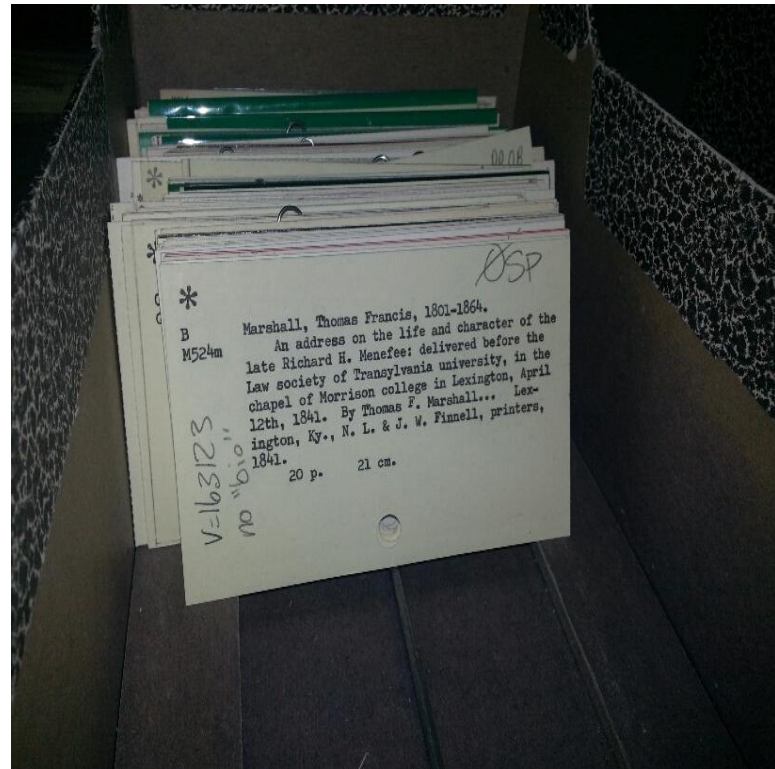
```
    ...
```

Manipulating Forms

- ◉ WebAdmin has many options
- ◉ We have two main types of files we load, and set different options for each
 - ◉ (and often forget one)
- ◉ I wrote a user script which adds two buttons to the web page which:
 - ◉ Are labeled with the type of load
 - ◉ Set the appropriate options

Special Collections card catalog project

- Confirm that Special Collections card catalog information is in the online catalog:
 - any hand-written notes
 - particular locations/collections
 - want description to match



Special Collections card catalog project: Challenges

- Want to update records with a common note as the cards are addressed
- Project workers may not have Voyager credentials
- Project workers may not have access to Voyager clients



InfoKat_{.uky.edu} Library Catalog

[Library Home](#) | [Mobile](#) | [Other Library Catalogs](#) | [Interlibrary Loan](#) | [Articles from Storage](#) | [E-Journals](#) | [Blackboard \[Bb\]](#) | [Ask a Librarian](#)

New Search : [Go](#) [Search History](#)

[MARC Card Viewer](#)

[Search](#)

[My Searches](#)

[My List](#)

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Daddy Long Legs ; and, Dear enemy /

Title: Daddy Long Legs ; and, Dear enemy / Jean Webster ; edited with an introduction and notes by Elaine Showalter.

Author: [Webster, Jean, 1876-1916.](#)

Holdings Information

Location: Young Library - 5th Floor
Call Number: PS3545.E365 D3 2004
Status: Not Checked Out

Other author/contributors: [Showalter, Elaine.](#)
[Webster, Jean, 1876-1916. Dear enemy.](#)

Other Title: [Dear enemy](#)
Publisher: New York : Penguin Books, 2004.
Description: xx, 357 p. : ill. ; 20 cm.
Subjects: [Women college students--Fiction.](#)
[Philanthropists--Fiction.](#)
[Women authors--Fiction.](#)
[Young women--Fiction.](#)
[Orphans--Fiction.](#)
[Epistolary fiction.](#)
Bildungsromans.

This item

[Record View](#)
[Staff View](#)

Actions

[Make a Request](#)
(Select Book & Media Express-if "Not Checked Out". Otherwise, select Hold for Wait List or Recall to have item returned immediately.)
[Print](#)
[Export](#)
[E-mail](#)
[Add to My List](#)

More About This Item From

Google Books:



["About This Book"](#)

This is not usually here!

Only project workers can see it!

Card View

- "Card View" button displays relevant parts of the record in roughly "card order".
- Details of Bib and MFHD both displayed
- Bolded fields in particular should be checked closely

Voyager MARC record: 2237424

Options

[Return to InfoKat](#)

Mark found

020 __ \$a 0143039067

100 1_ \$a Webster, Jean, \$d 1876-1916.

245 10 \$a Daddy Long Legs ; \$b and, Dear enemy / \$c Jean Webster ; edited with an introduction and notes by Elaine Showalter.

246 3_ \$a Dear enemy

260 __ \$a New York : \$b Penguin Books, \$c 2004.

300 __ \$a xx, 357 p. : \$b ill. ; \$c 20 cm.

504 __ \$a Includes bibliographical references (p. [xix]-xx).

590 __ \$a Honoree: Kathryn Lybarger

650 _0 \$a Women college students \$v Fiction.

650 _0 \$a Philanthropists \$v Fiction.

650 _0 \$a Women authors \$v Fiction.

650 _0 \$a Young women \$v Fiction.

650 _0 \$a Orphans \$v Fiction.

655 _7 \$a Epistolary fiction. \$2 gsafd

655 _7 \$a Bildungsromans. \$2 gsafd

655 _7 \$a Love stories. \$2 gsafd

700 1_ \$a Showalter, Elaine.

700 12 \$a Webster, Jean, \$d 1876-1916. \$t Dear enemy.

Holdings record #2540666

852 0_ \$b yl,5 \$h PS3545.E365 \$i D3 2004

Mark found

- Pressing the “mark found” button adds the bib number to a separate database
- Periodically add field to found records using Global Data Change
- Records not as up-to-date, but work is faster

In Summary

- Staff need different functionality from the OPAC
- You can provide that functionality in the browser in various ways
- Often those ways are sharable to other institutions with similar needs

Voyager and...

- Methods work for other web sites
 - Primo
 - Alma
- Has anyone tried this yet?

Resources

- User script frameworks:
 - [GreaseMonkey](#) (Firefox add-on)
 - [TamperMonkey](#) (Chrome extension)
- Tools
 - Firebug - <http://getfirebug.com/>
 - JSFiddle - <http://jsfiddle.net/>

Details

- Blog posts:
 - [Your form is too complicated; mine is faster](#)
 - [Clear your bookmarks bar with OpenSearch browser plugins](#)
- Repositories:
 - <https://github.com/zemkat/OpenSearch>
 - <https://github.com/zemkat/CatAccent>

Contact information

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- GitHub: <https://github.com/zemkat>
- Blogs:
 - <http://problem-cataloger.tumblr.com/>
 - <http://library-computer.tumblr.com/>

